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**1.** 16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

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**2.** 16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-tovehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

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## 3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

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## 4. 9.01: Advanced Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is “a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

## 5. 9.01.01.73-R: Category-Theoretic Tools to Support Manufacturing Information Integration

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

This subtopic is calling for a software tool to test the categorical formalism on integration problems in smart manufacturing and additive manufacturing.  Category theory has been identified as a flexible and straightforward mathematical formalism for establishing compatibility of information structures and setting up the required information exchange. The software tool must enable the creati ...

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## 6. 9.01.02.73-R: Computer Aided Standards Development (CASD) – A Software Tool to Automate the Standards Development Process

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The development of documentary and test standards is a long and tedious process. Challenges facing standards developers include complex, inadequately defined terminology, and rapidly changing associated information content. Even after a standard is “set,” its implementation and adoption can be hampered by the gap between the technical requirements of that standard and the technol ...

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## 7. 9.01.03.68-R: High-Throughput Manufacturing Methods for Engineered MRI Contrast Agents

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Microfabricated magnetic imaging agents with greater sensitivity and new functionality for magnetic resonance imaging (MRI) have recently been demonstrated at NIST [1-4]. The technology relies on thin-film fabrication methods adapted from the semiconductor industry. This “top-down” approach is expensive and suffers from low yield compared to “bottom-up” methods based ...

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## 8. 9.01.04.68-R: Laser Power Meter for Manufacturing Applications

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The decreasing cost and increasing efficiency of high-power lasers is revolutionizing manufacturing in the U.S. and around the world. Multi-kilowatt lasers are now routinely used for welding, cutting, and additive manufacturing. Precision control of these processes, and thus the uniform quality of the manufactured product, requires a meter that can measure the power of such lasers with an uncertai ...

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## 9. 9.01.05.68-R: Optical Microscopy as Applied to Fabrication of Atomic-Scale Devices

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

NIST seeks development of an optical imaging system that has micrometer resolution, an image field of 50 to 200 micrometers, and a depth of focus that ensures image quality over the field of view of interest. Such a system must have a working distance of nominally 20 cm, image an object that is in vacuum, and potentially have flexibility to work around obstructed sight paths. To set the context, ...

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## 10. 9.01.06.73-R: Predictive Modeling Tools for Metal-Based Additive Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

NIST seeks the development of tools that rely on a suite of physics-based and empirical models to support predictive analyses of metal-based additive manufacturing (AM) processes and products.  Physics-based models will be developed in such a way to ensure reusability in

a predictive environment, irrespective of product geometry.  The tool will support reliable and repeatable microstruct ...

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